

SUITABILITY GROUP A-1

(Loamy Bottomland)

Description: Deep, well drained or moderately well drained soils with loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas. (Soils with a clayey subsoil have at least 14 inches of loamy material above the subsoil.)

Limitations: Soils in this subgroup can have slight wetness and slight salinity or alkalinity.

Soils:

- Alluvial land
- Bridgeport silt loam
- Broken alluvial land
- Caruso silt loam
- Cozad silt loam
- Dale silt loam, clay loam
- Detroit silt loam, silty clay loam
- Eltree silt loam
- Hobbs silt loam
- Hord silt loam, silty clay loam
- Humbarger loam, silt loam
- Leshara clay loam
- McCook silt loam, fine sandy loam
- New Cambria silty clay, silty clay loam
- Roxbury silt loam, soils, complex
- Tobin silt loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			Ph RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	6	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	6	8	6	7	2-3					FAIR-GOOD
PAWNEE	5N	7N	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	3	9	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	6	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	6	8	6	7	1-3					FAIR
NEBRASKA 54	5N	8N	6	7	1-3					FAIR
SIDEOTS GRAMA	7	8	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	7	8	4	5	1-3					GOOD
SWITCHGRASS	6	8	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	8	6	5	1-2					GOOD
COOL SEASON GRASSES										
CREeping FOXTAIL	2N	5N	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	2N	5N	7	7	1-2					POOR
MEADOW BROMEGRASS	5	7	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REGAR	5	7	7	6	1-2					FAIR
ORCHARDGRASS	0	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	7	7	7	1-2					POOR
REED CANARYGRASS	0	6	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
TORREED	0	6	8	6	1-2					POOR
RISE	0	5	8	6	1-2					POOR
SMOOTH BROMEGRASS	5	8	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	5	8	7	7	1					FAIR
LINCOLN	4	7	7	7	1					FAIR
SOUTHLAND	5	8	7	7	1					FAIR
TALL FESCUE	3	8	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	3	8	7	4	1					POOR
WHEATGRASS										
INTERMEDIATE	5	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	5	7	6	4	1-2					FAIR
TALL	6	8	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	6	8	6	4	1-2					FAIR
WESTERN	6	8	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	8	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	6	9	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	5	8	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATINGS FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATINGS OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-2

(Loamy)

Description: Deep, well drained or moderately well drained soils with loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on uplands and receive little or no extra moisture from adjoining areas. (Soils with a clayey subsoil have at least 14 inches of loamy material above the subsoil.)

Limitations: Few or no limitations. Soils in this subgroup can have slight wetness and slight salinity or alkalinity.

Soils: Carlson silt loam, complex  
Geary silt loam, silty clay loam  
Harney silt loam, silty clay loam, complex  
Holdrege loam, silt loam, silty clay loam, fine sandy loam  
Kenesaw silt loam  
Mento silt loam, silty clay loam, soils  
Nuckolls silt loam, silty clay loam  
Richfield silt loam, silty clay loam  
Satanta loam  
Uly loam, silt loam, complex  
Ulysses silt loam, complex

Recommended Species: See chart on next page

LRA: 73  
SUITABILITY GROUP: A-2

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SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	5	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	5	8	6	7	2-3					FAIR-GOOD
PANNEE	4N	7N	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	0	7	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	5	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	5	8	6	7	1-3					FAIR
NEBRASKA 54	5N	8N	6	7	1-3					FAIR
SIDEOTS GRAMA	7	7	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	7	7	4	5	1-3					GOOD
SWITCHGRASS	6	8	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	8	6	5	1-2					GOOD
COOL SEASON GRASSES										
MEADOW BROMEGRASS	4	7	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REGAR	4	7	7	6	1-2					FAIR
ORCHARDGRASS	0	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	7	7	7	1-2					POOR
REED CANARYGRASS	0	5	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
TOREED	0	5	8	6	1-2					POOR
RISE	0	5	8	6	1-2					POOR
SMOOTH BROMEGRASS	3	7	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	3	7	7	7	1					FAIR
LINCOLN	3	7	7	7	1					FAIR
SOUTHLAND	3	7	7	7	1					FAIR
TALL FESCUE	0	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	0	7	7	4						POOR
WHEATGRASS										
INTERMEDIATE	4	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	4	7	6	4	1-2					FAIR
TALL	5	7	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	5	7	6	4	1-2					FAIR
WESTERN	6	8	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	8	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	3	8	10	8		0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	2	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-3  
(Coarse Loamy Bottomlands

- Description: Deep, well drained or moderately well drained soils with loamy surfaces and subsoils. Soils in this subgroup have moderately coarse-textured surfaces, occur on lowlands, and may receive extra moisture from adjoining areas.
- Limitations: Lack of moisture and soil blowing may be hazards during establishment of pasture.
- Soils: Boel fine sandy loam  
Canadian fine sandy loam  
Carr fine sandy loam  
Las Animas sandy loam, complex  
Munjor sandy loam, fine sandy loam, complex

Recommended Species: See chart on next page

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			Ph RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	6	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	6	8	6	7	2-3					FAIR-GOOD
PAWNEE	5N	7N	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	3	9	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	6	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	6	8	6	7	1-3					FAIR
NEBRASKA 54	5N	8N	6	7	1-3					FAIR
SAND BLUESTEM	6	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN WOODWARD	6N	8N	5	7	1-3					FAIR-GOOD
WOODWARD	6	8	6	7	1-3					FAIR-GOOD
SIDEOTS GRAMA	7	8	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	7	8	4	5	1-3					GOOD
SWITCHGRASS	6	8	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	8	6	5	1-2					GOOD
COOL SEASON GRASSES										
CREeping FOXTAIL	2	5	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	2	5	7	7	1-2					POOR
MEADOW BROMEGRASS	5	7	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REGAR	5	7	7	6	1-2					FAIR
ORCHARDGRASS	0	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	7	7	7	1-2					POOR
REED CANARYGRASS	0	6	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IGREED	0	6	8	6	1-2					POOR
RISE	0	5	8	6	1-2					POOR
SMOOTH BROMEGRASS	5	8	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	5	8	7	7	1					FAIR
LINCOLN	4	7	7	7						FAIR
SOUTHLAND	5	8	7	7	1					FAIR
TALL FESCUE	3	8	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	3	8	7	4	1					POOR
WHEATGRASS										
INTERMEDIATE	5	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	5	7	6	4	1-2					FAIR
TALL JOSE	6	8	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	6	8	6	4	1-2					FAIR
WESTERN BARTON	6	8	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	8	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	5	9	10	8		0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	4	8	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-4

(Sands)

Description: Deep, well drained to excessively drained soils with sandy surfaces and subsoils. Available water holding capacity in the 40-inch root zone is less than four inches.

Limitations: Choice of plants is limited by droughtiness and low fertility. Lack of moisture and soil blowing may be a hazard during establishment of recommended species.

Soils: Dorrance gravelly sandy loam, sandy loam  
Pratt loamy fine sand  
Simeon loamy sand  
Tivoli fine sand  
Valentine fine sand

Recommended Species: See chart on next page.

LRA: 73  
SUITABILITY GROUP: A-4

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SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	5	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	5	7	6	7	2-3					FAIR-GOOD
PAWNEE	4N	6N	6	7	2-3					FAIR-GOOD
EASTERN BANGRASS	2	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	5	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	5	7	6	7	1-3					FAIR
NEBRASKA 54	5N	7N	6	7	1-3					FAIR
PRAIRIE SANDREED	6	8	5	3	2-3	0-1	0-1	0-1	5.5-7.0	GOOD
GOSHEN	6	8	6	3	2-3					GOOD
SAND BLUESTEM	6	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN	6N	8N	5	7	1-3					FAIR-GOOD
WOODWARD	6	8	6	7	1-3					FAIR-GOOD
SIDEHATS GRAMA	6	7	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	6	7	4	5	1-3					GOOD
SWITCHGRASS	6	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	7	6	5	1-2					GOOD
COOL SEASON GRASSES										
CREeping FOXTAIL	0	5	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	0	5	7	7	1-2					POOR
MEADOW BROMEGRASS	0	7	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REGAR	0	7	7	6	1-2					FAIR
JARHARDGRASS	0	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	7	7	7	1-2					POOR
SMOOTH BROMEGRASS	3	7	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	3	7	7	7	1					FAIR
LINCOLN	3	7	7	7						FAIR
SOUTHLAND	3	7	7	7						FAIR
TALL FESCUE	0	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	0	7	7	4	1					POOR
WHEATGRASS										
INTERMEDIATE	0	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	0	7	6	4	1-2					FAIR
LEGUMES										
ALFALFA (STANDARD)	0	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	0	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

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6 / Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.



SUITABILITY GROUP A-6

(Coarse Loamy Upland)

- Description: Deep, well drained soils with loamy surfaces and subsoils. Soils in this subgroup have moderately coarse-textured surfaces and occur on uplands.
- Limitations: Lack of moisture and soil blowing may be hazards during establishment of recommended species.
- Soils: Anselmo sandy loam, fine sandy loam  
Dalhart complex  
Ortello fine sandy loam, complex

Recommended Species: See chart on next page.

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SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	5	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	5	8	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	0	7	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	5	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	5	8	6	7	1-3					FAIR
NEBRASKA 54	4N	6N	6	7	1-3					FAIR
SAND BLUESTEM	5	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN	5N	8N	5	7	1-3					FAIR-GOOD
WOODWARD	5	8	6	7	1-3					FAIR-GOOD
SIDEHATS GRAMA	7	7	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL. RENO	7	7	4	5	1-3					GOOD
SWITCHGRASS	6	8	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	8	6	5	1-2					GOOD
COOL SEASON GRASSES										
MEADOW BROMEGRASS	4	7	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REBAR	4	7	7	6	1-2					FAIR
ORCHARDGRASS	0	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	7	7	7	1-2					POOR
REED CANARYGRASS	0	5	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	0	5	8	6	1-2					POOR
RISE	0	5	8	6	1-2					POOR
SMOOTH BROMEGRASS	3	8	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	3	8	7	7						FAIR
LINCOLN	3	8	7	7						FAIR
SOUTHLAND	3	8	7	7	1					FAIR
TALL FESCUE	0	8	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	0	8	7	4	1					POOR
WHEATGRASS										
INTERMEDIATE	4	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	4	7	6	4	1-2					FAIR
TALL	5	7	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	5	7	6	4	1-2					FAIR
WESTERN	6	8	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	8	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	3	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	2	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-7

(Deep Limy

**Description:** Deep and moderately deep, well drained or somewhat excessively drained soils with loamy surfaces and subsoils that contain lime throughout the profile.

**Limitations:** Soils in this subgroup are slightly affected by limy surfaces and subsoils.

**Soils:** Armo loam, silt loam, complex  
Bippus clay loam  
Coly silt loam  
Kim silty clay loam  
Mansic clay loam, soils, complex  
Mansker clay loam, complex  
Ost silt loam  
Penden loam, clay loam, silty clay loam, complex  
Wakeen silt loam, silty clay loam, complex

**Recommended Species:** See chart on next page

LRA: 73  
SUITABILITY GROUP: A-7

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SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DAYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	5	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	5	8	6	7	2-3					FAIR-GOOD
PAWNEE	4N	7N	6	7	2-3					FAIR-GOOD
INDIANGRASS	4	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	4	7	6	7	1-3					FAIR
NEBRASKA 54	4N	7N	6	7	1-3					FAIR
SIDEWATER GRAMA	7	7	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	7	7	4	5	1-3					GOOD
SWITCHGRASS	5	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	5	7	6	5	1-2					GOOD
COOL SEASON GRASSES										
MEADOW BROMEGRASS	3	6	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REGAR	3	6	7	6	1-2					FAIR
ORCHARDGRASS	0	6	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	6	7	7	1-2					POOR
SMOOTH BROMEGRASS	2	6	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	2	6	7	7	1					FAIR
LINCOLN	2	6	7	7	1					FAIR
SOUTHLAND	2	6	7	7	1					FAIR
TALL FESCUE	3	5	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	3	5	7	4	1					POOR
WHEATGRASS										
INTERMEDIATE	3	6	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	3	6	6	4	1-2					FAIR
TALL	5	7	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	5	7	6	4	1-2					FAIR
WESTERN	6	8	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	8	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	0	7	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	0	6	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED. 1-3=POOR, 4-6=FAIR. 7-9=GOOD: N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-9

(Sandy Bottomland)

- Description: Deep, well drained or excessively drained soils with sandy surfaces and subsoils. Soils in this subgroup have sandy surfaces and occur on bottomlands and receive extra water from upland drainage.
- Limitations: Choice of plants is limited by droughtiness and low fertility. Soil blowing may be extremely hazardous during establishment and early growth.
- Soils: Inavale fine sand, loamy sand, loamy fine sand  
Lincoln soils

Recommended Species: See chart on next page

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3A: 73  
 SUITABILITY GROUP: A-9

-2-

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			Ph RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	5	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	5	7	6	7	2-3					FAIR-GOOD
PANNEE	4N	6N	6	7	2-3					FAIR-GOOD
EASTERN BAWAGRASS	2	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	5	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	5	7	6	7	1-3					FAIR
NEBRASKA 54	4N	7N	6	7	1-3					FAIR
PRAIRIE SANDREED	6	8	5	3	2-3	0-1	0-1	0-1	5.5-7.0	GOOD
GOSHEN	6	8	6	3	2-3					GOOD
SAND BLUESTEM	6	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN	6N	8N	5	7	1-3					FAIR-GOOD
WOODWARD	6	8	6	7	1-3					FAIR-GOOD
SWITCHGRASS	6	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	7	6	5	1-2					GOOD
COOL SEASON GRASSES										
CREEPING FOXTAIL	0	5	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	0	5	7	7	1-2					POOR
MEADOW BROMEGRASS	0	7	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REGAR	0	7	7	6	1-2					FAIR
ORCHARDGRASS	0	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	0	7	7	7	1-2					POOR
REED CANARYGRASS	0	5	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	0	5	8	6	1-2					POOR
RISE	0	4	8	6	1-2					POOR
SMOOTH BROMEGRASS	3	7	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	3	7	7	7	1					FAIR
LINCOLN	3	7	7	7	1					FAIR
SOUTHLAND	3	7	7	7	1					FAIR
TALL FESCUE	0	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	0	7	7	4	1					POOR
WHEATERGRASS										
INTERMEDIATE	0	7	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	0	7	6	4	1-2					FAIR
WESTERN	5	7	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	5	7	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	0	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	0	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1\_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2\_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3\_/ GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4\_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5\_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6\_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

**SUITABILITY GROUP C-1**

**(Wet Loamy)**

**Description:** Deep, somewhat poorly or poorly drained soils with loamy surfaces and loamy to clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas.

**Limitations:** Seasonal wetness during a portion of the growing season.

**Soils:** Alluvial land, wet  
Lesho clay loam  
Wann loam

**Recommended Species:** See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	4	-	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	4	-	6	7	2-3					FAIR-GOOD
PAWNEE	4N	-	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	7S	-	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	4	-	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	4	-	6	7	1-3					FAIR
NEBRASKA 54	4N	-	6	7	1-3					FAIR
SWITCHGRASS	7	-	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	-	6	5	1-2					GOOD
COOL SEASON GRASSES										
CREeping FOXTAIL	7	-	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	7	-	7	7	1-2					POOR
ORCHARDGRASS	5	-	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	5	-	7	7	1-2					POOR
REED CANARYGRASS	7	-	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IDREED	7	-	8	6	1-2					POOR
RISE	7	-	8	6	1-2					POOR
TALL FESCUE	4	-	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	4	-	7	4	1					POOR
WHEATGRASS										
INTERMEDIATE	6	-	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	6	-	6	4	1-2					FAIR
TALL	8	-	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	8	-	6	4	1-2					FAIR
WESTERN	8	-	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	8	-	5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.



**SUITABILITY GROUP F-4**

**(Clayey)**

**Description:** Deep and moderately deep, well drained to somewhat poorly drained soils with loamy or clayey surfaces and clayey subsoils. (If surface texture is loamy, it is less than 14 inches over dense clayey subsoil.)

**Limitations:** Slowly or very slowly permeable clayey subsoils.

**Soils:** Crete silt loam, silty clay loam  
Spearville silty clay loam, complex

**Recommended Species:** See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
BIG BLUESTEM	4	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAN	4	7	6	7	2-3					FAIR-GOOD
PANNEE	4N	7N	6	7	2-3					FAIR-GOOD
INDIANGRASS	3	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	3	7	6	7	1-3					FAIR
NEBRASKA 54	3N	7N	6	7	1-3					FAIR
SIDEWAYS GRAMA	6	7	3	5	1-3	0-1	0	0	6.0-7.5	GOOD
EL RENO	6	7	4	5	1-3					GOOD
SWITCHGRASS	5	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	5	7	6	5	1-2					GOOD
COOL SEASON GRASSES										
MEADOW BROMEGRASS	2	6	6	6	1-2	1-2	1-2	0-2	5.5-7.0	FAIR
REBAR	2	6	7	6	1-2					FAIR
SMOOTH BROMEGRASS	2	6	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	2	6	7	7						FAIR
LINCOLN	2	6	7	7	1					FAIR
SOUTHLAND	2	6	7	7						FAIR
TALL FESCUE	0	7	6	4		1-2	1-2	0-2	6.2-7.0	POOR
KENTUCKY 31	0	7	7	4	1					POOR
HEATGRASS										
INTERMEDIATE	3	6	5	4	1-2	1-2	1-2	0-1	6.0-7.5	FAIR
SLATE	3	6	6	4	1-2					FAIR
TALL	4	6	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	4	6	6	4	1-2					FAIR
WESTERN	5	7	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	5	7	5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP G-3

(Wet Sodic

- Description:** Deep, somewhat poorly or poorly drained loamy soils with a high sodium absorption ratio. The subsoils range from sandy to clayey and contain a high water table during the winter and/or spring months.
- Limitations:** Choice of plants is limited by high sodium content and moderate salinity. Wetness during a portion of the growing season is common.
- Soils:** Saltine silty clay loam

**Recommended Species:** See chart on next page.

LRA: 73  
SUITABILITY GROUP: G-3

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SPECIES	SPECIES ADAPTABILITY 1 /		SPECIES PRODUCTIVITY 2 /	GRAZING PREFERENCE 3 /	STAND ESTABLISHMENT 4 /	FERTILIZER NEEDS 5 /			PH RANGE 6 /	DROUGHT TOLERANCE
	DRYLAND	IRRIGATED				N	P	K		
WARM SEASON GRASSES										
ALKALI SACATON	7 /	0	4	2	2-3	0-1	0	0	6.5-8.0	GOOD
SALTALX	7 /	0	5	2	2-3					GOOD
SWITCHGRASS	6	0	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	6	0	6	5	1-2					GOOD
COOL SEASON GRASSES										
WHEATGRASS										
TALL	6	0	5	4	1-2	1-2	1-2	0-1	7.0-8.5	FAIR
JOSE	6	0	6	4	1-2					FAIR
WESTERN	5	0	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	5	0	5	5	1-3					GOOD

1 / ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOXY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2 / SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3 / GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4 / STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5 / FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DAYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6 / PH RANGE - LOW AND HIGH PH RECOMMENDED FOR THE SPECIES.

7 / PRIOR SEEDING EFFORTS ON SALINE SOILS HAVE BEEN NEAR FAILURES.

SUITABILITY GROUP H

(Not Suitable)

**Description:** This group includes various textures and phases of soils and land types which occur on a wide range of slopes and topography.

**Limitations:** Soils in this group are generally too shallow, erosive, gravelly, stony, or rocky; too steep, droughty, wet, clayey, or saline and alkaline for good survival or growth of pasture species.

**Soils:** Active dunes  
Bogue clay, complex  
Canlon soils, complex  
Corinth silty clay loam  
Heizer complex  
Kipson complex  
Ness clay  
Nibson silt loam, soils, complex  
Potter soils  
Randall clay  
Rough broken land  
Timken clay, complex

**Recommended Species:** See Standards and Specifications for Critical Area Planting (342).